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File: DWPI

Mar 2, 1992

DERWENT-ACC-NO: 1992-120447

DERWENT-WEEK: 199215

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TITLE: Quartz optical fibre mfr. for high strength - by coating preform of quartz glass with sol gel soln. of titanium alkoxide, heat treating and wire drawing

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SUMITOMO ELECTRIC IND CO

SUME

PRIORITY-DATA: 1990JP-0172596 (July 2, 1990)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES MAIN-IPC

JP 04065327 A

March 2, 1992

004

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP04065327A

July 2, 1990

1990JP-0172596

INT-CL (IPC): C03B 37/01; C03C 13/04; G02B 6/00

ABSTRACTED-PUB-NO: JP04065327A

BASIC-ABSTRACT:

Mfr. comprises coating outer periphery of preform for optical fibre of quartz glass, with sol-gel soln. contg. Ti alkoxide, to form Ti-doped gel film on surface of preform; heat-treating soln. coated preform to glassify gel film to obtain preform coated with Ti-doped layer; and wire-drawing obtd. preform to obtain quartz optical fibre with Ti-doped coating. Pref the soln. is mixed soln. comprising Ti alkoxide of Ti(OR)₄, Si alkoxide of Si(OR)₄, alcohol, and water. Preform is coated with sol-gel soln. by dipping preform into soln.

USE/ADVANTAGE - High strength optical fibre.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: QUARTZ OPTICAL FIBRE MANUFACTURE HIGH STRENGTH
COATING PREFORM QUARTZ GLASS SOL GEL SOLUTION TITANIUM ALKOXIDE
HEAT TREAT WIRE DRAW

DERWENT-CLASS: L01 L03 P81 V07

CPI-CODES: L01-F03F1;

EPI-CODES: V07-F01A1; V07-F01A3A;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1992-056199

Non-CPI Secondary Accession Numbers: N1992-090013

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(FUJIKURA.AS. AND (OPTICAL FIBER) AND (PREFORM WITH (COAT\$3 OR FILM OR LAYER))) .USPT,PGPB.	3

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Fujikura.as. and (optical fiber) and
(preform with (coat\$3 or film or layer))

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USPT,PGPB	L21 and (optical fiber) and (preform with (coat\$3 or film or layer))	0	<u>L22</u>
USPT,PGPB	(Fujikura near2 Densen)	23	<u>L21</u>
JPAB,EPAB,DWPI,TDBD	(optical fiber) and (((preform or blank) near3 (coat\$3 or film or layer)) same (resin or polymer or latex or (self assembled monolayer) or SAM or silane or acrylate or wax or PVA or (polyvinyl alcohol)))	63	<u>L20</u>
USPT,PGPB	(optical fiber) and (((preform or blank) near3 (coat\$3 or film or layer)) same (resin or polymer or latex or (self assembled monolayer) or SAM or silane or acrylate or wax or PVA or (polyvinyl alcohol)))	80	<u>L19</u>
USPT,PGPB	(optical fiber) and ((preform or blank) near3 (coat\$3)) and ((prevent\$3 or remov\$3 or protect\$3 or minimiz\$3 or eliminat\$3) near5 (dust or water or moisture or particle or particulate or contamin\$5))	86	<u>L18</u>
USPT,PGPB	6189341.pn.	1	<u>L17</u>
JPAB,EPAB,DWPI,TDBD	L15 and (dust or moisture or particulate or particle or water or contamin\$5)	42	<u>L16</u>
JPAB,EPAB,DWPI,TDBD	(optical fiber) and ((preform or blank) near3 (coat\$3))	217	<u>L15</u>
USPT,PGPB	L13 and ((prevent\$3 or remov\$3 or protect\$3 or minimiz\$3 or eliminat\$3) near5 (dust or water or moisture or particle or particulate or contamin\$5))	12	<u>L14</u>
USPT,PGPB	L4 and (optical fiber) and ((preform or blank) near3 (coat\$3))	55	<u>L13</u>
USPT,PGPB	L4 and (optical fiber) and ((preform or blank or ((glass or silica or quartz) tube)) near3 (coat\$3))	67	<u>L12</u>
USPT,PGPB	L4 and (optical fiber) and ((preform or blank or ((glass or silica or quartz) tube)) near3 (coat\$3 or film or layer))	116	<u>L11</u>
USPT,PGPB	L4 and (optical fiber) and ((preform or blank or core or ((glass or silica or quartz) tube)) near3 (coat\$3 or film or layer))	457	<u>L10</u>
USPT,PGPB	L4 and (optical fiber) and ((preform or blank or core or ((glass or silica or quartz) tube)) near5 (coat\$3 or film or layer))	547	<u>L9</u>
JPAB,EPAB,DWPI,TDBD	(optical fiber) and (preform with (coat\$3 or layer) with (protect\$3 or prevent\$3)) and (dust or particle or particulate or water or moisture)	19	<u>L8</u>
JPAB,EPAB,DWPI,TDBD	(optical fiber) and ((preform with (coat\$3 or layer) with (protect\$3 or prevent\$3 or dust or particle or particulate)))	227	<u>L7</u>
USPT,PGPB	L4 and (optical fiber) and ((preform with (coat\$3 or layer) with (protect\$3 or prevent\$3)))	22	<u>L6</u>
USPT,PGPB	L4 and (optical fiber) and ((preform with (coat\$3 or layer) with (protect\$3 or prevent\$3)) same (dust or	2	<u>L5</u>

USPT,PGPB	articulate or particle or moisture or water)) ((427/154).icls. or (427/162).icls. or (427/163.1).icls. or (427/163.2).icls. or (427/164).icls. or (427/165).icls. or (427/168).icls. or (427/168).icls. or (427/169).icls. or (385/123).icls. or (385/126).icls. or (385/128).icls. or (385/141).icls. or (385/145).icls. or (65/385).icls. or (65/426).icls. or (65/430).icls. or (65/432).icls. or ((65/435)!.ICLS.))	3234	<u>L4</u>
USPT,PGPB	(Bookbinder.in. or Glaesemann.in. or Mattingly) and (optical fiber) and (preform with (coat\$3 or layer or protect\$3))	1	<u>L3</u>
USPT,PGPB	Corning and (optical fiber) and (preform with (coat\$3 or layer or protect\$3))	195	<u>L2</u>
USPT,PGPB	Corning and (Bookbinder.in. or Glaesemann.in. or Mattingly) and (optical fiber) and (preform with (coat\$3 or layer or protect\$3))	1	<u>L1</u>